

## **LISTING OF CLAIMS**

1. (currently amended) A method for evaluating and distributing workload across a processing environment having a plurality of computer systems each having a plurality of assigned existing workload units comprising the steps of: calculating assigning a plurality of impact values, one impact value for each existing workload unit assigned for each of a plurality of computing systems in a processing environment each computer system having a plurality of assigned existing workload units, wherein said calculating assigning of each impact value comprises determining a change in system expiration date by assigning an impact number representing the number of days that the expiration date of the computer system would be changed should [[a]] an existing workload unit be removed from the system with all other workload units remaining the same; assessing determining the impact of moving the existing workload unit from a donor computer system to a recipient computer system based on said impact values; and reassigning altering the existing workload in the processing environment to change expiration dates of at least two of said plurality of computer systems.

2-3. (canceled)

4. (currently amended) The method of Claim 1 further comprising sorting said existing workload units based on said impact values into a sorted impact list.

5. (canceled)

6. (currently amended) The method of Claim 1 further comprising comparing the expiration date of each of said plurality of computing systems to at least one target service planning date for servicing each of said plurality of computing systems.

7. (currently amended) The method of Claim 6 further comprising altering the existing workload in the processing environment to change the expiration date relative to the target service planning date for at least two of said plurality of computer systems.

8. (currently amended) The method of Claim 6 further comprising the steps of:  
creating a From list of computer systems for which the expiration date precedes the at least one service planning date;

creating a To list of computer systems for which the expiration date is later than said at least one service planning date; and

reassigning existing workload units from computer systems on said From list to computer systems on said To list based on said impact values.

9. (original) The method of Claim 8 further comprising calculating new expiration dates for computer systems on said From and said To lists after said reassigning.

10. (currently amended) Apparatus for evaluating and distributing workload across a processing environment having a plurality of computer systems each having a plurality of existing assigned workload units comprising:

an administrative processor comprising:

an impact value component for assigning calculating a plurality of impact values, one impact value for each existing workload unit assigned to each of a plurality of computing systems in a processing environment each computer system having a plurality of assigned existing workload units, wherein said calculating assigning of each impact value comprises determining a change in system expiration date by assigning an impact number representing the number of days that the expiration date of the computer system

would be changed should [[a]] an existing workload unit be removed from the system with all other workload units remaining the same; and

a processing component for assessing determining the impact of moving the existing workload unit from a donor computer system to a recipient computer system based on said impact values and for reassigning altering the workload in the processing environment to change expiration dates of at least two of said plurality of computer systems.

11. (original) The apparatus of Claim 10 further comprising at least one storage location accessible by the administrative processor for storing data relating to said plurality of computer systems.

12. (currently amended) A program storage device readable by machine storing tangibly embodying a program of instructions executable by the machine to perform method steps for evaluating and distributing existing workload across a processing environment having a plurality of computer systems each having a plurality of assigned workload units, said method comprising the steps of:

calculating assigning a plurality of impact values, one impact value for each existing workload unit assigned for each of a plurality of computing systems of a processing

environment each computer system having a plurality of assigned existing workload units, wherein said calculating assigning of each impact value comprises determining a change in system expiration date by assigning an impact number representing the number of days that the expiration date of the computer system would be changed if [[a]] an existing workload unit is removed from the system with all other workload units remaining the same; assessing determining the impact of moving the existing workload unit from a donor computer system to a recipient computer system based on said impact values; and altering reassigning the workload in the processing environment to change expiration dates of at least two of said plurality of computer systems.

13. (currently amended) The device of Claim 12 wherein the method further comprises sorting said existing workload units based on said impact values into a sorted impact list.

14. (canceled)

15. (currently amended) The device of Claim 12 wherein the method further comprises comparing the expiration date of each of said plurality of computing systems to at least one

target planning service date for servicing each of said plurality of computing systems.

16. (currently amended) The device of Claim 15 wherein the method further comprises altering the workload in the processing environment to change the expiration date relative to the target service planning date for at least two of said plurality of computer systems.

17. (currently amended) The device of Claim 16 wherein the method further comprises the steps of:

creating a From list of computer systems for which the expiration date precedes the at least one service planning date;

creating a To list of computer systems for which the expiration date is later than said at least one service planning date; and

reassigning workload units from computer systems on said From list to computer systems on said To list based on said impact values.

18. (original) The device of Claim 17 wherein the method further comprises calculating new expiration dates for computer systems on said From and said To lists after said reassigning.

19-20. (canceled)

21. (currently amended) A method for evaluating and distributing workload across a processing environment having a plurality of computer systems each having a plurality of assigned workload units comprising the steps of:

- (a) obtaining a list of a plurality of computer systems in a processing environment having a plurality of computer systems each having a plurality of assigned existing workload units;
- (b) assigning a key service planning date for each computer system on said list of a plurality of computer systems;
- (c) determining a system expiration date for each computer system based on assigned existing workload units;
- (d) comparing the determined system expiration date to the key service planning date for each computer system;
- (e) adding a computer system to a Fromlist on a move table when the determined system expiration date is earlier than the key service planning date for said computer system;
- (f) adding a computer system to a Tolist on a move table when the determined system expiration date is later than the key service planning date for said computer system;

- (g) evaluating the impact of moving at least one existing workload unit from a selected computer system on the Fromlist to a selected computer system on the Tolists;
- (h) repeating steps (c) to (g) until all Fromlist entries have been evaluated; and
- (i) altering reassigning existing workload on said selected computer systems.

22. (currently amended) The method of Claim 21 wherein said evaluating impact comprises the steps of:

selecting a computer system on the Tolists to be evaluated; assigning a plurality of impact values, one impact value for each existing workload unit assigned to the selected computer system on the Fromlist, wherein each impact value represents a number of days that the expiration date of the computer system would be changed if the workload unit was removed from the system with all other workload units remaining the same;

identifying at least one selected existing workload unit on said selected computer system on the Fromlist for which removal of the at least one selected unit would move the expiration date of the computer system to later than its key service planning date; and

recalculating expiration date for a selected computer system on the Tolists should the at least one selected existing YOR920000461US1      -9-

workload unit be moved from said selected computer system on the Fromlist to the selected computer system on the Tolist based on the impact value of said at least one selected workload unit;

determining that the at least one selected existing workload unit should be moved if the recalculated expiration date of the selected computer system on the Tolist is later than its key service planning date; and

selecting a different computer system on the Tolist to be evaluated when the recalculated expiration date of the selected computer system on the Tolist is earlier than its key service planning date.

23. (currently amended) A program storage device readable by machine storing tangibly embodying a program of instructions executable by the machine to perform method steps for evaluating and distributing workload across a processing environment having a plurality of computer systems each having a plurality of assigned existing workload units, said method comprising the steps of:

(a) obtaining a list of a plurality of computer systems in a processing environment having a plurality of computer systems each having a plurality of assigned existing workload units;

- (b) assigning a key service planning date for each computer system on said list of a plurality of computer systems;
- (c) determining a system expiration date for each computer system based on assigned existing workload units;
- (d) comparing the determined system expiration date to the key service planning date for each computer system;
- (e) adding a computer system to a Fromlist on a move table when the determined system expiration date is earlier than the key service planning date for said computer system;
- (f) adding a computer system to a Tolist on a move table when the determined system expiration date is later than the key service planning date for said computer system;
- (g) evaluating the impact of moving at least one existing workload unit from a selected computer system on the Fromlist to a selected computer system on the Tolist;
- (h) repeating steps (c) to (g) until all Fromlist entries have been evaluated; and
- (i) altering reassigning workload on said selected computer systems based on said evaluating.

24. (currently amended) The program storage device of Claim 23 wherein said evaluating impact comprises the steps of: selecting a computer system on the Tolist to be evaluated; assigning a plurality of impact values, one impact value for each existing workload unit assigned to the selected YOR920000461**US1**

computer system on the Fromlist, wherein each impact value represents a number of days that the expiration date of the computer system would be changed if the existing workload unit was removed from the system with all other workload units remaining the same;

identifying at least one selected existing workload unit on said selected computer system on the Fromlist for which removal of the at least one selected unit would move the expiration date of the computer system to later than its key service planning date; and

recalculating expiration date for a selected computer system on the Tolist should the at least one selected existing workload unit be moved from said selected computer system on the Fromlist to the selected computer system on the Tolist based on the impact value of said at least one selected existing workload unit;

determining that the at least one selected existing workload unit should be moved if the recalculated expiration date of the selected computer system on the Tolist is later than its key service planning date; and

selecting a different computer system on the Tolist to be evaluated when the recalculated expiration date of the selected computer system on the Tolist is earlier than its key service planning date.

25. (currently amended) Apparatus for evaluating and  
distributing workload across a processing environment having  
a plurality of computer systems each having a plurality of  
assigned existing workload units comprising:

an administrative processor comprising:

a processing component for

(a) obtaining a list of a plurality of computer systems in a  
processing environment having a plurality of computer  
systems each having a plurality of assigned existing  
workload units;

(b) assigning a key service planning date for each computer  
system on said list of a plurality of computer systems;

(c) determining a system expiration date for each computer  
system based on assigned existing workload units;

(d) comparing the determined system expiration date to the  
key planning date for each computer system;

(e) adding a computer system to a Fromlist on a move table  
when the determined system expiration date is earlier than  
the key service planning date for said computer system;

(f) adding a computer system to a Tolist on a move table  
when the determined system expiration date is later than the  
key service planning date for said computer system;

(g) evaluating the impact of moving at least one existing  
workload unit from a selected computer system on the  
Fromlist to a selected computer system on the Tolists;

- (h) repeating steps (c) to (g) until all Fromlist entries have been evaluated; and
- (i) ~~altering~~ reassigning workload on said selected computer systems based on said evaluating.

26. (currently amended) The apparatus of Claim 25 wherein said administrative processor comprises an impact value component for:

selecting a computer system on the Tolist to be evaluated; assigning a plurality of impact values, one impact value for each existing workload unit assigned to the selected computer system on the Fromlist, wherein each impact value represents a number of days that the expiration date of the computer system would be changed if the workload unit was removed from the system with all other workload units remaining the same;

identifying at least one selected existing workload unit on said selected computer system on the Fromlist for which removal of the at least one selected unit would move the expiration date of the computer system to later than its key service planning date; and

recalculating expiration date for a selected computer system on the Tolist should the at least one selected existing workload unit be moved from said selected computer system on the Fromlist to the selected computer system on the Tolist

based on the impact value of said at least one selected existing workload unit;

determining that the at least one selected existing workload unit should be moved if the recalculated expiration date of the selected computer system on the Tolist is later than its key service planning date; and

selecting a different computer system on the Tolist to be evaluated when the recalculated expiration date of the selected computer system on the Tolist is earlier than its key service planning date.